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```

R1000-400 IOC SELFTEST 1.3.2
  512 KB memory ... [OK]
  Memory parity ... [OK]
  I/O bus control ... [OK]
  I/O bus map ... [OK]
  I/O bus map parity ... [OK]
  I/O bus transactions ... [OK]
  PIT ... [OK]
  Modem DUART channel ... [OK]
  Diagnostic DUART channel ... [OK]
  Clock / Calendar ... [OK]
Checking for RESHA board
  RESHA EEPROM Interface ... [OK]
Downloading RESHA EEPROM 0 - TEST
Downloading RESHA EEPROM 1 - LANCE
Downloading RESHA EEPROM 2 - DISK
Downloading RESHA EEPROM 3 - TAPE
  DIAGNOSTIC MODEM ... DISABLED
  RESHA VME sub-tests ... [OK]
  LANCE chip Selftest ... [OK]
  RESHA DISK SCSI sub-tests ... [OK]
  RESHA TAPE SCSI sub-tests ... [OK]
  Local interrupts ... [OK]
  Illegal reference protection ... [OK]
  I/O bus parity ... [OK]
  I/O bus spurious interrupts ... [OK]
  Temperature sensors ... [OK]
  IOC diagnostic processor ... [OK]
  Power margining ... [OK]
  Clock margining ... [OK]
Selftest passed

Restarting R1000-400S March 4th, 1901 at 23:11:39

OPERATOR MODE MENU - options are:
  1 => Change BOOT/CRASH/MAINTENANCE options
  2 => Change IOP CONFIGURATION
  3 => Enable manual crash debugging (EXPERTS ONLY)
  4 => Boot IOP, prompting for tape or disk
  5 => Boot SYSTEM

Enter option [Boot SYSTEM] :

Logical tape drive 0 is an 8mm cartridge tape drive.
Logical tape drive 1 is declared non-existent.
Logical tape drive 2 is declared non-existent.
Logical tape drive 3 is declared non-existent.
Booting I/O Processor with Bootstrap version 0.4

Spinning up disk 0
Initializing M400S I/O Processor Kernel 4_2_16
Disk 0 is ONLINE and WRITE ENABLED
IOP Kernel is initialized
Initializing diagnostic file system ... [OK]
=====
Restarting system after loss of AC power

CrashSave has created tombstone file R1000_DUMP1.
preparing to run the Confidence Test (uDIAG)
  Loading from file DIAG.M200_UCODE bound on November 15, 1989 13:02:00
  Loading Register Files and Dispatch Rams .... [OK]
  Loading Control Store ..... [OK]

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the Confidence test (uDIAG) passed

>>> NOTICE: the OPERATOR_MODE switch is set to INTERACTIVE <<<
CLI/CRASH MENU - options are:
  1 => enter CLI
  2 => make a CRASHDUMP tape
  3 => display CRASH INFO
  4 => Boot DDC configuration
  5 => Boot EEDB configuration
  6 => Boot STANDARD configuration
Enter option [Boot STANDARD configuration] : 1
CLI> x expmon
2 32MB MEMORY BOARDS IN PROCESSOR - TOTAL OF 64 MEGABYTES.
EM> rd
...
EM> poll_all
NO MACHINE CHECKS DETECTED
EM> poll_all
SEQ HAS DETECTED A MACHINE CHECK
EM> sm
...
UCODE HALT AT 0102
...
EM> bye
CLI>
CLI> x rdiag
...
DIAG> test/3 all
Running FRU P1DCOMM
Running FRU P1IOC
Running FRU P1VAL
Running FRU P1TYP
Running FRU P1SEQ
Running FRU P1FIU
Running FRU P1MEM
Running FRU P1SF
Running FRU P2IOC
Running FRU P2VAL
  Loading from file PHASE2_MULT_TEST.M200_UCODE bound on July 16, 1986 14:31:44
  Loading Register Files and Dispatch Rams .... [OK]
  Loading Control Store [OK]
Running FRU P2TYP
Running FRU P2SEQ
Running FRU P2FIU
Running FRU P2MEM
Running FRU P2UADR
Running FRU P2FP
  Loading from file FPTEST.M200_UCODE bound on January 29, 1990 17:26:52
  Loading Register Files and Dispatch Rams .... [OK]
  Loading Control Store [OK]
Running FRU P2EVNT
Running FRU P2STOP
Running FRU P2ABUS
  Loading from file ABUS_TEST.M200_UCODE bound on July 22, 1986 13:27:21
  Loading Register Files and Dispatch Rams .... [OK]
  Loading Control Store [OK]
Running FRU P2CSA
Running FRU P2MM
Running FRU P2COND
Running FRU P2UCODE
  Loading from file P2UCODE.M200_UCODE bound on August 6, 1986 16:16:27

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Loading Register Files and Dispatch Rams .... [OK]
Loading Control Store ..... [OK]
Running FRU P3RAMS
Running FRU P3UCODE
Loading from file P3UCODE.M200_UCODE bound on August 6, 1986 13:50:42
Loading Register Files and Dispatch Rams .... [OK]
Loading Control Store . [OK]
PASSED
DIAG> quit
CLI> force_uoload
CLI> boot
Enter name of configuration to boot [STANDARD] : eedb
Loading from file M207_44.M200_UCODE bound on November 5, 1992 at 6:08:17 PM
Loading Register Files and Dispatch Rams .... [OK]
Loading Control Store ..... [OK]
Loading : KAB.11.0.1.MLOAD
Loading : KMI.11.0.0.MLOAD
Loading : KKDIO.11.0.3.MLOAD
Loading : KKD.11.0.0S.MLOAD
Loading : KK.11.5.9K.MLOAD
Loading : EEDB.11.2.0D.MLOAD
Loading : UOSU.11.3.0D.MLOAD
Loading : UED.10.0.0R.MLOAD
Loading : UM.11.1.5D.MLOAD
Loading : UAT.11.2.2D.MLOAD
851/1529 wired/total pages loaded.
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Starting R1000 Environment - it now owns this console.

====>> Kernel.11.5.8 <<====
Kernel: CHANGE_GHOST_LOGGING
WANT TRACING: FALSE
WANT LOGGING: FALSE
Kernel: START_VIRTUAL_MEMORY
ALLOW PAGE FAULTS: YES

====>> ERROR_LOG <<====
23:43:59 --- TCP_IP_Driver.Worker.Finalized

====>> CONFIGURATOR <<====
starting diagnosis of configuration

**** VOLUME CONFIGURATION ****

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UNIT	VOLUME NAME	VOL NUM	DATE OF ROOT WHEN ADMITTED
0			

```

**** PROBLEMS WITH CURRENT VOLUME CONFIGURATION ****

unit 0 state = FORMATTED
the root volume is missing
WANT TO BUILD NEW SYSTEM (YES/NO): yes
starting creation of new system
VOLUME NAME FOR unit 0: volume 1
creating root volume: 1
creation of new system is complete
starting virtual memory system
the virtual memory system is up

====>> Kernel.11.5.8 <<====
Kernel: START_NETWORK_IO
Kernel: START_ENVIRONMENT
TRACE LEVEL: INFORMATIVE
Kernel:
====>> Environment Elaborator <<====
Elaborating subsystem: ENVIRONMENT_DEBUGGER
Elaborating subsystem: ABSTRACT_TYPES
Elaborating subsystem: MISCELLANEOUS
Elaborating subsystem: OS_UTILITIES

====>> Recovery <<====
Recovery Is Needed, Should I fake it? yes

====>> CONFIGURATOR <<====
starting snapshot
snapshot is finished

====>> Recovery <<====
Recovery Is Complete
Garbage Collection can't run until the machine is rebooted
Rebooting to enable Garbage Collection

====>> CONFIGURATOR <<====
starting virtual memory shutdown
starting snapshot
snapshot is finished
virtual memory shutdown at ( 2, 04-MAR-01 23:58:30)
system shutdown is complete

*****
Sequencer has detected a machine check.

^G*****
Booting R1000 IOP after R1000 Halt or Machine Check detected
Boot Reason code = 0C, from PC 0001ADA2

Restarting R1000-400S March 4th, 1901 at 23:58:46

OPERATOR MODE MENU - options are:
1 => Change BOOT/CRASH/MAINTENANCE options
2 => Change IOP CONFIGURATION
3 => Enable manual crash debugging (EXPERTS ONLY)
4 => Boot IOP, prompting for tape or disk
5 => Boot SYSTEM

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Enter option [Boot SYSTEM] : 5

Logical tape drive 0 is an 8mm cartridge tape drive.
Logical tape drive 1 is declared non-existent.
Logical tape drive 2 is declared non-existent.
Logical tape drive 3 is declared non-existent.
Booting I/O Processor with Bootstrap version 0.4

Initializing M400S I/O Processor Kernel 4_2_16
Disk 0 is ONLINE and WRITE ENABLED
IOP Kernel is initialized
Initializing diagnostic file system ... [OK]
=====
Restarting system after R1000 Halt => Shutdown from Environment

CrashSave has created tombstone file R1000_DUMP1.

>>> NOTICE: the OPERATOR_MODE switch is set to INTERACTIVE <<<
CLI/CRASH MENU - options are:
 1 => enter CLI
 2 => make a CRASHDUMP tape
 3 => display CRASH INFO
 4 => Boot DDC configuration
 5 => Boot EEDB configuration
 6 => Boot STANDARD configuration
Enter option [Boot STANDARD configuration] :
```